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APR - 8 1996

Safety and Effectiveness Summary

The following safety and effectiveness summary has been prepared pursuant to requirements for 510(k) summaries specified in 21 CFR ¶807.92(a).

807.92(a)(1)

Submitter Information

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807.92(a)(2)

Trade Name: P10A, P12A, PT10A, PA11-A

Common Name: Diagnostic Ultrasound Transducers

Classification Name(s): Transducer, Ultrasonic, Diagnostic 892.1570

Safety and Effectiveness Summary Diagnostic Ultrasound Transducers, P10A, P12A, PT10A, PA11-A Biosound, Inc.

າ<u>າ7.92(a)(3)</u>

Predicate Device(s)

- Esaote P10 Diagnotic Ultrasound Transducer K896356
- Esaote P12 Diagnotic Ultrasound Transducer K896356
- Esaote SMA26 Diagnostic Ultrasound Transducer K944485/S3
- Acuson S228 Diagnostic Ultrasound Transducer K902515

Additional Substantial Equivalence information is provided in the attached Substantial Equivalence Comparison Table.

807.92(a)(6)

SUBSTANTIAL EQUIVALENCE COMPARISON TABLE

ESAOTE AU4	Frequency MHz	Predicate Device	Frequency MHz	Application
		Esaote AU530		
		510 (k): 896356		
P12A	4.7	P12	5.0	Vascular
10A	2.3	P10	2.5	Cardiac

ESAOTE AU4	Frequency MHz	Predicate Device	Frequency MHz	Application
PT1OA	2.0	Acuson Probe S228 Cleared via K902515	2.0	Transcranial

ESAOTE AU4 Code	Frequency MHz	Predicate Device	Frequency MHz	Application
PA11-A	2.5 - 3.5 B-Mode 2.3 - 2.8 PW/CFM/CW	Esaote Probe: SMA26 Cleared via K944485/S3	2.5 - 3.5	Cardiac
	2.5 - 3.5 B-Mode 2.3 - 2.8 PW/CFM/CW	Acuson Probe S228 Cleared via K902515	2.0 - 2.5	Transcranial

807.92(a)(4)

Device Description

The subject devices are diagnostic ultrasound transducers described in the following tables..

PA11-A

PATI-A			
MODES	CHARACTERISTICS		
B mode	2.5/3.5 MHz		
M mode	2.5/3.5 MHz		
PW mode	2.3/2.8 MHz 2.3/2.8 MHz		
CW mode			
CFM mode	2.3/2.8 MHz		
Power Color	2.3/2.8 MHz		
Elevation & Focal Point	80 mm		
Angle	30-90 deg.		
Depth	55.3 ÷ 260 mm		
Connector	Both Electronical connectors		
Cable length (meters)	2.00 mt.		
Operating Temperature (deg.C)	from +10 to +40		
Storing temperature (deg.C)	from -5 to +45		
Weight (Kg)	500 G.		
Safety Requirements	IEC 601-1(CEI62-5)		
Application	Cardiac Transcranial		

P10A, P12A, PT10A

MODES	P10A	P12A
MODE	CW	CW
Frequency	2.5 MHz	5.0 MHz
Connector	Both Mechanical connectors	Both Mechanical connecto
Cable length (meters)	1850 mm	1850 mm
Operating Temperature	from +10 to +40	from +10 to +40
(deg.C)		
Storing temperature (deg.C)	from -5 to +45	from -5 to +45
Weight (Kg)	200 G.	200 G.
Safety Requirements	IEC 601-1(CEI62-5)	IEC 601-1(CEI62-5)
Application	Cardiac	Vascular

807.92(a)(5)

Intended Use(s)

The intended use is specific for each transducer: P12A - Vascular

PT10A - Transcranial

P10A - Cardiac

PA11A - Cardiac/ Transcranial